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L2 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS
 AN ***118:127738*** CA
 TI Aluminum nitride powder having high resistance to water and chemicals
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 PA Matsushita Electric Works, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C01B021-072
 CC 49-5 (Industrial Inorganic Chemicals)
 Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04321506	A2	19921111	JP 1991-92424	19910423
	JP 2981002	B2	19991122		

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AB Organosilicon compd. layers (thickness .ltoreq.2 .mu.m) having siloxane bonding are formed on the surfaces of the AlN powder. The organosilicon compd. layers are prep'd. from coating compns. contg. (A) SiO₂-dispersed oligomer solns. of organosilane prep'd. by hydrolysis of hydrolyzable organosilane having general formula R_nSiX_{4-n} [R₁ = C1-8 monovalent hydrocarbon groups (same or different, substituted or unsubstituted); n = 0-3 (integers); X = hydrolyzable group] in org. solvent, or partial hydrolysis of organosilane in colloidal SiO₂-dispersed org. solvent and water; (B) silanol group-contg. polyorganosiloxanes having av. compn. formula R₂aSi(OH)bO(4-a-b)/2 [R₂ = C1-8 monovalent hydrocarbon groups (same or different, substituted or unsubstituted); 0.2 .ltoreq. a .ltoreq. 2; 0.0001 .ltoreq. b .ltoreq. 3; but a + b < 4]; and (C) catalyst. The powder is used as filling materials for plastics.

ST aluminum nitride powder water resistance; chem resistance aluminum nitride powder; filler plastic aluminum nitride powder

IT Catalysts and Catalysis
 (contg. dibutyl-tin-dilaurate, in formation of organosilicon compd. coatings on aluminum nitride powder)

IT Plastics
 RL: USES (Uses)
 (fillers for, organosilicon compd.-coated aluminum nitride powder as)

IT Silanes
 Siloxanes and Silicones, uses
 RL: USES (Uses)
 (org., coatings, on aluminum nitride powder, for resistances to water and chems.)

IT Coating materials
 (organosilicon compd., on aluminum nitride powder, for resistances to water and chems.)

IT Water-resistant materials
 (fillers, chem.-resistant, organosilicon compd.-coated aluminum nitride powder as, for plastics)

IT 77-58-7 3069-29-2, N-.beta.-Aminoethyl-.gamma.-aminopropylmethyl-dimethoxysilane

RL: CAT (Catalyst use); USES (Uses)
 (catalyst contg., in formation of organosilicon compd. coatings on aluminum nitride powder)

IT 24304-00-5, Aluminum nitride

RL: USES (Uses)
 (powder, organosilicon compd.-coated, with resistances to water and chems., as fillers, for plastics)